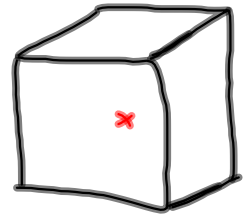
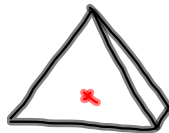


Calculating the [force of gravity] between two objects (F_g).

$$F_g = \frac{(G \cdot M \cdot m)}{(r^2)}$$

Ex.



F_g = Force of Gravity (N)

$$G = 6.67 \times 10^{-11} \text{ N} \cdot (\text{m/kg})^2$$

M
 m } = mass (kg)

r = dist. between center of gravity (m)

Ex 1

Calc. F_g between 
 72kg 60kg

①
$$F_g = \frac{G M m}{r^2}$$

2. $F_g = ?$

③
$$F_g = \frac{(\quad)^1 (\quad)^2 (\quad)^3}{(\quad)^2}$$

$F_g =$ N